ORAL CAVITY

No. 524
Cf. - #406
Denied-3/7/64

THE COUNCIL FOR TOBACCO RESEARCH - U.S.A.
SUCCESSOR TO THE
TOBACCO INDUSTRY RESEARCH COMMITTEE
633 THIRD AVENUE
NEW YORK, N. Y. 10017

COMMITTEE:
Dr. Lynch, Chm.
Dr. Reimann
Dr. Little

Application For Research Grant

Date: November 19, 1965

1. Name of Investigator: Lawrence F. Quigley, Jr., B.S., A.B., D.M.D., M.S.
C. M. Cobb, III, S.B., Ph.D.

2. Title: Affiliate, Forsyth Dental Center
Affiliate, Forsyth Dental Center

3. Institution & Address: Forsyth Dental Center
140 Fenway, Boston, Mass.

4. Project or Subject: Initial Field Trip to determine the correlation of cancer and reverse cigar smoking.

5. Detailed Plan of Procedure (Use additional pages if more space is required.)

Palatal cancer is a rare disease and the etiology is unknown. Possible protective mechanisms may be supplied by the oral flora, salivary constituents, or the hereditary cytological pattern of the human organism. Despite the normal rarity of palatal cancer, a great increase in its frequency has been reported by many workers who have studied reverse smokers (Shirokov, Lepp and Wenger, Redi, and Racugno, etc.

In an effort to reveal pertinent facets of the tobacco cancer relationship a study has been carried out by these workers on reverse cigarette smokers of the Netherlands Antilles. The typical reverse smoker in this location has smoked six to twenty cigarettes a day for over thirty years. The oral condition reveals a thick, tough, leathery palate, with marked leukoplakia and scarred burned areas. Gross examinations of several hundred reverse cigarette smokers in the Netherlands Antilles revealed an absence of malignancy. A detailed examination of 21 of these patients likewise revealed normal cytological and morphological characteristics. No cellular dysplasia was evident as determined by cytologic and biopsy reports. Necropsy statistics in the Netherlands Antilles showed the same incidence of palatal cancer as in the U. S. where no reverse smoking has been reported.

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Section 5 (continued)

Reports of our studies are enclosed for your consideration.

The data of the Netherlands Antilles do not support the studies of other workers who have examined reverse cigar smokers almost exclusively. One explanation is that only reverse cigar smoking is carcinogenic. There is also the possibility that ethnic differences may be the cause of the different frequencies of palatal cancer.

What is proposed is an initial study to compare the effects of reverse cigarette smoking and reverse cigar smoking.

Much palatal carcinoma has been reported for reverse cigar smokers in Panama by research workers, Shirkov, et al. Preliminary correspondence with workers in this area (Ramon) has indicated that cooperation would be obtained from the different hospitals in this region.

It is proposed to carry out survey work in Panama to identify the effects of reverse cigar smoking. An effort will be made to discover patients suffering from carcinoma. The condition of the oral cavity for both normal and carcinogenic reverse cigar smokers will be studied with emphasis on the microscopic cellular changes of the epithelium and underlying connective tissue. The study will, of course, include complete examinations. The clinical picture, will be reinforced with data on other aspects or oral pathology.

The study will be pupported by statistical investigation of hospital records in the Panama region in order to confirm the validity of the clinical picture.

The results of the statistical and clinical studies should give an initial picture of the frequency of palatal carcinoma among reverse cigar smokers and the sequence of cytologic changes which lend eventually to cellular dysplasia in the palatal region. There is a possibility that causative factors may be clearly isolated.

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6. Budget Plan:

a.	Salaries	1100
b.	Expendable Supplies	1200
c.	Permanent Equipment	850
d.	Overhead (~~15%~~ 20 of a, b, c, e)	1232
e.	Other	3010
	Total	7392

7. Anticipated Duration of Work:

March 1, 1966 to March 1967

8. Facilities and Staff Available:

Dr. Gerald Sklar, Head of Dept. of Oral Patholgy, Tufts University School of Dental Medicine wishes to participate in the microscopic analysis of the cytologic smears and biopsies; Facilities and Staff at Lago Hospital, Aruba, N.A.; Facilities and Staff at Gorgas Hospital, Canal Zone, Panama; Facilities and Staff of General Hospital, David, Panama

9. Additional Requirements:

None

10. Additional Information (including relation of work to other projects and other sources of supply):

The project director, Dr. Quigley, has visited Aruba and South America on a three month periodic basis since 1960. He made a field trip to Panama in 1964 to familiarize himself with the legal requirements of the Panamanian government. At the same time contacts were made with the medical, dental, and public health officials (Dr. Hernan Ramon, president of the Panamanian Dental Society was most cooperative). Letters of introduction were given to every hospital in Panama by the Dept. of Public Health. Preliminary field trips revealed localities inhabited by hundreds of reverse cigar smokers.

Signature Lawrence F. Quigley Jr.
Director of Project

John N. Hein, Director
Business Officer of the Institution

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ESTIMATED COST OF INITIAL FIELD TRIP TO DETERMINE THE CORRELATION OF CANCER AND REVERSE CIGAR SMOKING

Personnel:	
Lawrence F. Quigley, Jr.	no salary
Statistician for one month	500
Interpreter/social worker $20 per day	600
Expendable Supplies:	
Rubber base material and impressions $10/;t; 30 pts.	300
Polaroid film 2/rolls/pt; $5/roll x 30	300
Chest X-rays $5/pt; 30 pts	150
Film 16 mm. 500 ft.	75
Film 35 mm 2/pt/roll $5/roll	75
Misc. Lab. Supplies	300
Permanent Equipment:	
Polaroid Camera for intra oral photo	750
Rental of Cine Kodak Camera	100
Overhead:	1232
Misc:	
One trip to Panama 2 workers	700
Living Allowance in Panama (30 days) $200 per worker	400
Rental of car $5/day	150
Cytological smears	810
Biopsies	750
Typist	200
	$ 7392

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LAWRENCE FRANCIS QUIGLEY, JR.

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1945	B.S., United States Naval Academy, Annapolis, Maryland
1947	A.B., Navy Pacific University, Honolulu, Hawaii
1951	D.M.D., Tufts University School of Dental Medicine, Boston, Massachusetts
1955	Certificate of training (Orthodontic), Tufts University Graduate School
1958	M.S., Tufts University School of Dental Medicine, Boston, Massachusetts
1950-51	Teaching Fellow in Anatomy, Tufts University School of Dental Medicine
1951-53	Field Research Investigator in Periodontology, Tufts University School of Dental Medicine
1951-	Dental Consultant, Webster Clinic for Plastic and Reconstructive Surgery, Boston, Massachusetts
1957-	Research Associate, Tufts Cleft Palate Institute, Boston, Massachusetts
1961-63	Cleft Palate Consultant, Yale University Medical School, New Haven, Connecticut
1962-64	Affiliate in Dentistry, Forsyth Dental Center, Boston, Massachusetts
1964-	Affiliate in Orthodontics, Forsyth Dental Center

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Publications:

1. Marshall-Day, C. D.; Stephens, R. G; Quigley, L. F.: Periodontal Disease: Prevalence and Incidents, Journal of Periodontology, 26:185-203, 1955.

2. Webster, R. C.; Quigley, L. F.: Methods of correction of velopharyngeal sphincter incompetency using palatal and posterior pharyngeal tissues: Proposed system of classification, Journal of Plastic and Reconstructive Surgery, 18:474-489, 1956.

3. Webster, R. C.; Coffey, R. J.; Russell, J. A.; Nichols, R. S.; Quigley, L. F.: Method of examination and diagnosis of velopharyngeal incompetency - surgical aspects, Cleft Palate Bulletin, 8:7-9, 1958.

4. Webster, R. C.; Coffey, R. J.; Kelleher, R. E.; Quigley, L. F.: The otorhinolaryngologic effects of velopharyngeal incompetency, Cleft Palate Bulletin, 8:12-14, 1958.

5. Webster, R. C.; Coffey, R. J.; Russell, J. A.; Quigley, L. F.: Methods of surgical correction of velopharyngeal sphincter incompetency using palatal and posterior pharyngeal tissues: Proposed system of classification, Surgical Forum, 7:3-4, 1958.

6. Webster, R. C.; Quigley, L. F.: Pharyngeal flap staphylorrhaphy and speech aid as means of avoiding maxillofacial growth abnormalities in patients with cleft palate, A preliminary report, American Journal of Surgery, 96:820-822, 1958.

7. Quigley, L. F.; Shiere, F. R.; The role of salivary depressants in dentistry, Oral Surgery, Oral Medicine, Oral Pathology, p. 419-425, 1961.

8. Webster, R. C.; Kelleher, R. E.; Coffey, R. J.; Quigley, L. F.: Nasal and oral air flow in normal and cleft palate speech: Velocity and volume studies using warm wire flow meter and two-channel recorder (Part II), Journal of Dental Research, 42:1520-1527, 1963.

9. Hein, J. W.; Quigley, L. F.; Quigley, G.: Repeatable serial photography, Dental Radiography and Photography, 36:15-18, 1963.

10. Quigley, L. F.; Cobb, C. M.; Schoenfeld, S.; Hunt, E. E.; Williams, P.: Reverse smoking and its oral consequences in Caribbean and South American Peoples, Journal of the American Dental Association, 69: 427-442, 1964.

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Publications - con't.

11. Quigley, L. F.; Shiere, F. R.; Webster, R. C; Cobb, C. M.: Measuring palatopharyngeal competence with the nasal anemometer, The Cleft Palate Journal, 1:304-313, 1964.

12. Quigley, L. F.; Avery, E.: Diagnosis and treatment of tongue thrust as a result of reverse swallowing, Journal of American Speech and Hearing Association, (in press)

13. Quigley, L. F.; Cobb, C. M.; Medico-electronic instrumentation for evaluation of palato pharyngeal competence in the normal and cleft palate patient, Journal of Plastic and Reconstructive Surgery, (in press)

14. Quigley, L. F.; Cobb, C. M.: Measurements of oral and burning zone temperatures during conventional and reverse cigarette smoking, Archives or Oral Biology, (in press)

15. Quigley, L. F.; Cobb, C. M.; Webster, R. C.: A technique for obtaining intra- and extraoral photographs, The Cleft Palate Journal, (in press)

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R: REDACTED MATERIAL

CAROLUS MELVILLE COBB

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Lynn, Massachusetts

1944	S.B. Massachusetts Institute of Technology, U.S.A. (Chemistry)
1951	Ph. D. Massachusetts Institute of Technology, U.S.A. (Physical Chemistry)
1944-46	Research Chemist, Tennessee Eastman Corporation, Manhattan Project, Oak Ridge, Tennessee
1948-50	Teaching Fellow, Massachusetts Institute of Technology
1951-55	Senior Chemist, Ionics, Incorporated, Cambridge, Massachusetts
1955-60	Principal Scientist, Allied Research Associates, Boston, Massachusetts
1960-	Chief Chemist, American Science and Engineering, Incorporated, Cambridge, Massachusetts

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Carolus M. Cobb

Publications

1. Cobb, C. M., Ashley, L. E., Single Particle Scattering Functions for Latex Spheres in Water, J. Optical Society of America, 48, 9(4), April 1958.

2. Cobb, C. M., Zaff, S., Ashley, L. E., Equilibria at High Temperatures for the Formation of the Molecular Species C_2, C_3, Cu_2, and Si_2, Kinetics, Equilibria and Performance of High Temperature Systems, Washington: Butterworths, 1958.

3. Cobb, C. M., Zaff, S., Ashley, L. E., Equilibria at High Temperatures for the Formation of the Molecular Species C_2, C_3, Cu_2, and Si_2, Proceedings of the First Conference - Kinetics, Equilibria and Performance of High Temperature Systems, Butterworths, London 1960.

4. Cobb, C. M., et al, A Feasibility Study for a Liquid Analogue Computer - Phase I, sponsored by Geophysics Research Directorate, Air Force Cambridge Research Center, Air Research and Development Command under contract number AF 19(604)-1509 (Allied Research Associates, Inc., Boston, Massachusetts - 1955).

5. Cobb, C. M., et al, A Feasibility Study for a Liquid Analogue Computer - Final Report, sponsored by Geophysics Research Directorate, Air Force Cambridge Research Center, Air Research and Development Command, under contract number AF 19(604)-1509 (Allied Research Associates, Inc., Boston, Massachusetts - 1956)

6. Cobb, C. M., et al, Passive Total Momentum Experiment in Shot Marshmallow - April 1962, ASE Document Number 254, American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Defense Atomic Support Agency, Sandia Base, Albuquerque, New Mexico, under contract number DA-49-146-XZ-116.

7. Cobb, C. M., et al, Pinhole Camera Experiment in Shot Marshmallow (pre-test report) - April 1962, ASE Document number 255, American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Defense Atomic Support Agency, Sandia Base, Albuquerque, New Mexico, under contract number DA-49-146-XZ-116.

8. Cobb, C. M., et al, The Performance of Thermomechanical Instruments in the Aborted Shot Blue Gill (U) - June 1962, ASE Document number 280, American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Aeronautical Systems Division, Wright-Patterson AFB, Ohio, under contract number DA-49-146-XZ-136.

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Carolus M. Cobb Publications

9. Cobb, C. M., et al, Pinhole Camera Experiment in Shot Marshmallow (U) - August 1962, ASE Document number 301 (Revised), American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Defense Atomic Support Agency, Sandia Base, Albuquerque, New Mexico, under contract number DA-49-146-XZ-116.

10. Cobb, C. M., et al, Pinhole Camera Experiment in Shot Marshmallow (U) - September 1962, ASE Document Number 302 (Revised) American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Defense Atomic Support Agency, Sandia Base, Albuquerque, New Mexico, under contract number DA-49-146-XZ-116.

11. Cobb, C. M., et al, Structural Response to Thermal Radiation from a High Altitude Fireball (U) - November 1962, ASE Document number 303 (Revised), American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Aeronautical Systems Division, Wright-Patterson AFB, Ohio, under contract number DA-49-146-XZ-136.

12. Cobb, C. M., et al, Optical Measurements, Close-in Thermal Measurements, DASA DATA Center Special Report, American Science and Engineering, Inc., Cambridge, Mass. A Symposium sponsored by the Defense Atomic Support Agency and Edgerton, Germeshausen and Grier, Inc., held on 12 - 14 March 1963 at USAF Electronics Systems Division, L. G. Hanscom Field, Bedford, Mass.

13. Cobb, C. M., et al, Close-in Thermal and X-ray Vulnerability Measurements - July 1963, ASE Document number 410, American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Aeronautical Systems Division, Wright-Patterson AFB, Ohio, under contract number DA-49-146-XZ-136.

14. Cobb, C. M., et al, Investigation of Growth of Electromagnetic Single Crystals - November 1963, ASE Document number 469-I, American Science and Engineering, Inc., Cambridge, Mass. - sponsored by the Electronic Systems Division, Air Force Systems Command, L. G. Hanscom Field, Bedford, Mass., under contract number AF-19(628)-3878.

15. Quigley, L. F., Jr., Cobb, C. M., et al, Measuring Palatopharyngeal Competence with the Nasal Anemometer. The Cleft Palate Journal 1 (3), 304 - 313, 1964. Supported in part by NIH General Research Grant and by grants from Emerson College and Webster Clinic, Boston.

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16. Cobb, C. M., Quigley, L. F., Jr., et al, Reverse Smoking and Its Oral Consequences in Caribbean and South American Peoples. J. American Dental Association, 427-442, 1964. Supported in part by NIDR General Research Grant.

17. Cobb, C. M., Quigley, L. F., Jr., et al, Measurements of Oral and Burning Zone Temperatures during Conventional and Reverse Cigarette Smoking, Archives of Oral Biology. Sponsored by the NIH General Research Grant. In Press.

18. Cobb, C. M., Quigley, L. F., Jr., Webster, Richard C., Research and Clinical Applications of Color or Black and White Polaroid Photography for Intra- and Extra-Oral Procedures of the Cleft Palate Patient. The Cleft Palate Journal. Sponsored by General Research Grant and Materials Grant, Polaroid Corporation. In Press.

19. Cobb, C. M., Quigley, L. F., Jr., Payne, M. J., Medico-Electronic Instrumentation for Evaluation of Palatopharyngeal Competence in the Normal and Cleft Palate Patient, Journal of Plastic and Reconstructive Surgery. Sponsored by The Medical Foundation, Inc. In Press.

20. Cobb, C. M., Quigley, L. F., Jr., "Assessment of Clinical and Subjective Evaluation of Cleft Palate Speech I," Presented at May 1965 meeting of the American Cleft Palate Association, New York. Supported in part by The Hood Dairy Foundation, The Medical Foundation, and The National Institutes of Health General Research Grant.

21. Cobb, C. M., "Problems in the Measurement of Nasality," Presented at May 1965 Meeting of the American Cleft Palate Association, New York.

22. Quigley, L. F., Jr.; Cobb, Carolus M.; Webster, Richard C.; "A Technique for Obtaining Intra- and Extraoral Photographs," The Cleft Palate Journal, Vol. 2, No. 3, July 1965.

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